

Class	1MCT1
First Name:	Liam
Name	Eggermont
Project Name :	Wack-a-Mole
Assembly Revision :	
Approval Date :	
Part Count :	97
Total Cost :	€283

Part #	Part Name	Description	Revision	Qty
1	MDF plaat 122x61 cm 8mm	Top and bottom plate of enclosure	1	2
2	CanDo Steigerhout 62x30 mm 250cm	side, back and front pannels of enclosure	1	2
3	Veer, d: 3 cm, 20 stuks	springs for under the spheres	1	1
4	Raspberry Pi 4 Model B - 2GB	the brain of everything	1	1
5	BTF-LIGHTING® - Individueel Adresseerbare LED Strip - WS2812B ECO LED Strip - 2 meter - DC5V - IP30 Non-	to light op the spheres	1	1
6	DS-450R Drukknop ON-OFF rood 3A -125V / 1A - 250V	to swith between displaying the ip and the score	1	2
7	TRU COMPONENTS Hall-sensor AH3503UA 4.5 - 6 V/DC Meetbereik: +0.0195 - +0.0255 T TO-92 Solderen	to detect if there is a push on the spheres	1	20
8	AZDelivery RFID Kit RC522 met Reader, Chip en Card 13.56MHz SPI compatibel met Arduino en Raspberry Pi	to read the RFID tags and auto select a player	1	1
9	DEBO SENS 3AXISH Ontwikkelaarsboards - versnelling en gyroscoop, met header, MPU-	to detect how hard the tabe is being hit	1	1
10	Buzzer 5V	to signal when the RFID tag had bean read, to indicate the start and end of the game	1	1

11	Arduino Uno Rev3	to control the ledstrip	1	1
10	Buzzer 5V	to signal when the RFID tag had been read, to indicate the start and end of the game	1	1
11	Set van 70 stuks dubbelzijdig gatenroosterplaatkit - Nabance dubbelzijdig gatenroosterplaat gatenroosterplaat printolaat	To solder the electronics to	1	1
12	Sterke magneten rond – 50N Sterk magneetjes - 20 stuks – 8 x 2mm	To make the hall sensor be able to detect something	1	1
13	AZDelivery Jumper Wire Kabel Draadkabel 3 x 40 stuks per 20 cm M2M/ F2M / F2F compatibel met Arduino en Raspberry Pi	to detect some stuff	1	1
14	Audiokabel 2G 0,75mm <sup>2</sup> 25m rood en zwart	cabeling to attach the hall sensors	1	60
<b>Total</b>				<b>97</b>



Supplier	also available from	Units	Unit Cost
<a href="http://www.hubo.be/nl/p/mdf-plaat-122x61-cm-8mm/133812.html">www.hubo.be/nl/p/mdf-plaat-122x61-cm-8mm/133812.html</a>		1	€ 12.34
<a href="http://www.o.be/nl/p/cando-steigerhout-62x30-mm-250cm/345694.html">www.o.be/nl/p/cando-steigerhout-62x30-mm-250cm/345694.html</a>		1	€ 10.98
<a href="http://www.pl.com/be/nl/p/veer-d-3-cm-20-stuks/9200000040221210/">www.pl.com/be/nl/p/veer-d-3-cm-20-stuks/9200000040221210/</a>		20	€ 20.49
<a href="http://www.ronics.com/en/raspberry-pi-4-model-b-2gb-4267?src=raspberry">ronics.com/en/raspberry-pi-4-model-b-2gb-4267?src=raspberry</a>		1	€ 54.95
<a href="http://www.ws2812b-eco-led-strip-2-meter-dc5v-ip30-non-waterproof-30-led-per-me">ws2812b-eco-led-strip-2-meter-dc5v-ip30-non-waterproof-30-led-per-me</a>		1	€ 16.95
<a href="http://www.on.be/ds-450r-drukknop-on-off-rood-3a-125v-1a-250v.html">on.be/ds-450r-drukknop-on-off-rood-3a-125v-1a-250v.html</a>		1	€ 2.13
<a href="http://www.jw3lqSBhCoARIsAMBkTb01CsOpKWZHVTtF-sICS2kk0unNSEI9LQZqjM">jw3lqSBhCoARIsAMBkTb01CsOpKWZHVTtF-sICS2kk0unNSEI9LQZqjM</a>		20	€ 0.75
<a href="http://www.df0&amp;hvadid=430579159351&amp;hvpos=&amp;hvnetw=g&amp;hvrnd=8834281889799">df0&amp;hvadid=430579159351&amp;hvpos=&amp;hvnetw=g&amp;hvrnd=8834281889799</a>		1	€ 6.99
<a href="http://www.p266105.html?PROVID=2812&amp;qclid=Cj0KCQiAybaRBhDtARIsAIEG3kIV">p266105.html?PROVID=2812&amp;qclid=Cj0KCQiAybaRBhDtARIsAIEG3kIV</a>		1	€ 3.86
<a href="http://www/3lqSBhCoARIsAMBkTb0kpBgKDLb90lv30Il4cg-GGrRoZEEAyPLDCBhc6">/3lqSBhCoARIsAMBkTb0kpBgKDLb90lv30Il4cg-GGrRoZEEAyPLDCBhc6</a>		1	€ 0.35

<a href="https://store.arduino.cc/products/arduino-uno-rev3">s://store.arduino.cc/products/arduino-uno-rev3</a>	1	€	22.00
<a href="#">/3lqSBhCoARIsAMBkTb0kpBgKDLb90lv30II4cg-GGrRoZEEAyPLDCBhc6</a>	1	€	0.35
<a href="#">-gatenroosterplaat-printplaat-pcb-universeel-board-kit-25-pcb-universeel-t</a>	1	€	14.99
<a href="#">gneten-rond-50n-sterk-magneetjes-20-stuks-8-x-2mm/920000010329198</a>	20	€	5.26
<a href="#">10-stuks-per-20-cm-m2m-f2m-f2f-compatibel-met-arduino-en-raspberry-pi-</a>	3*40	€	5.79
<a href="#">e/nl/p/audiokabel-2g-0-75mm-25m-rood-en-zwart/998168.html</a>	60 meter	€	1.09

Max Cost	Real Cost
€ 24.68	
€ 21.96	
€ 20.49	
€ 54.95	
€ 16.95	
€ 4.26	
€ 15.00	
€ 6.99	
€ 3.86	
€ 0.35	

€ 22.00

€ 0.35

€ 14.99

€ 5.26

€ 5.79

€ 65.40

**€ 283.28**



